



USER AND CONFIGURATION MANUAL

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TechKover Stations

TechKover Station workstation provides the library staff with the necessary tool to perform two main tasks, loan and return at the counter, and recording RFID tags for new purchases of items from the center.

Hardware

- RFID HF reader with the ability to read the following market standards:
 - ISO 15.693 / 18.000-3.1
 - ISO 14443 A / B
- Allows reading and recording of the following RFID HF card chips
 - ISO 15.693 / 18.000-3.1
 - NXP I Code ILT, SLI, SLIX, SLIX2;
 - TI tag-it HF, Plus / TI tag-it HF Pro / Tag-it HF standard;
 - ISO 14443 A / B
 - NTAG21x (NFC)
 - MIFARE Classic; MIFARE Ultralight, MIFARE UI-tralight C, MIFARE Ultralight EV1;
 - FM1208
 - ST SRI512 recognition
 - MIFARE plus
 - FC Forum Type1 tag
- Rugged wearing surface made of Corian™ material.
- USB powered. It does not need additional external power.
- Connection to the operator's PC via USB port.

We have TechKover Station in three different models:

- Under table (TK866UT)
- Shield top table (TK866S)
- Non-Shield top table (TK866)

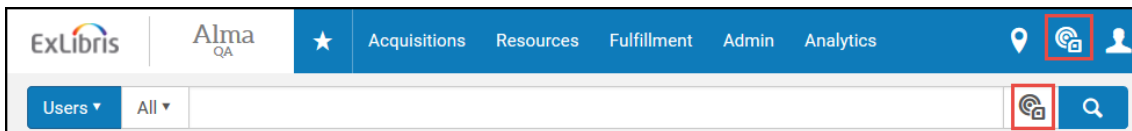
Protected USB connector to avoid shocks that could damage the equipment.


Software

- TechKover LMS is the direct interface to ALMA LMS
- TechKover Confersion

Setup integration profile in ALMA.

In order to use TechKoverly LMS integrated in ALMA, an integration profile is needed to be setup by ALMA administrator. If you do not know if the integration profile is already running, just check if an antenna icon is present on top menu.



If the icon  is not there, your software is NOT RFID-enabled, and an ALMA administrator needs to set up.

To configure the RFID integration profile:

1. On the Integration Profiles List page (**Configuration Menu > General > External Systems > Integration Profiles**), select **Add Integration Profile**.
2. Enter **Code** and **Name** of the profile. For **Code** type TK866 and TechKoverly LMS in **Name**
3. Select RFID from the **Integration Type** drop down list.

4. Select the RFID system that you are using from the **System** drop down list, and select **Next**. Supported systems are:
 - For TechKoverly LMS select **Other**

5. Select the **Active** check box to make this an active RFID definition. **Note: the profile is inactive by default.**

6. Enter the URL for the RFID system to which your RFID device is attached. In our case type <http://localhost:1801>
7. Select **Handle Multiple Items** to accept multiple items on the RFID reader.

NOTE: TechKoverly LMS software is used only for check in and check out and does not allow updating the tag itself in current version. Therefore, the mapping definitions are unavailable for TechKoverly RFID profiles. TechKoverly Conversion is provided with no extra cost in order to write or update tags.

8. Select **SAVE**

Configuring Library Codes for RFID in ALMA

Once the RFID integration profile is done, it must be assigned to every front desk with TechKoverly LMS station and software.

1. Go to the Alma library configuration (**Configuration Menu > General > Libraries section > Add a Library or Edit Library Information**)
2. In **Code for RFID** type **TK866**

The screenshot displays the 'General Details' section of the Alma library configuration interface. The interface includes tabs for 'Summary', 'Contact Information', 'Calendar Management', and 'IP Definitions'. The 'General Details' section is expanded, showing the following fields:

- Organization unit name *: **Main Library**
- Base Url: -
- Description: (Empty text area)
- Default location for acquisition: **Stacks**
- Campus: **Main Campus**
- Proxy: (Empty dropdown menu)
- Code for RFID: (Empty text input field, highlighted with a red box)

Installing TechKover LMS

TechKover LMS is an easy software to be deploy. There is **no need** to install:

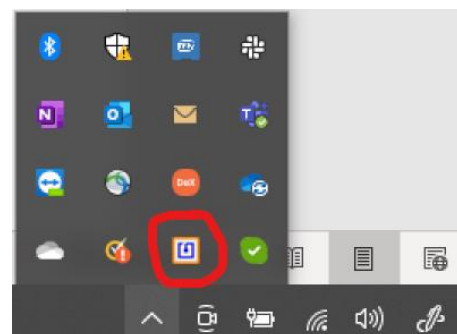
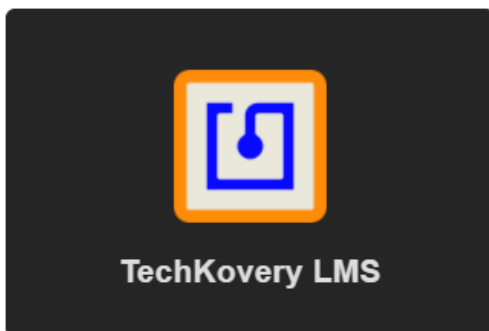
- Drivers for reader.
- Any extra software (nginx proxy...)
- License (it's embedded on reader)
- Even can run as a portable application.



Software run using port 1801 on local host. Depending on windows configuration you can be asked to allow firewall to do not block software on port 1801.

In order to install follow next steps:

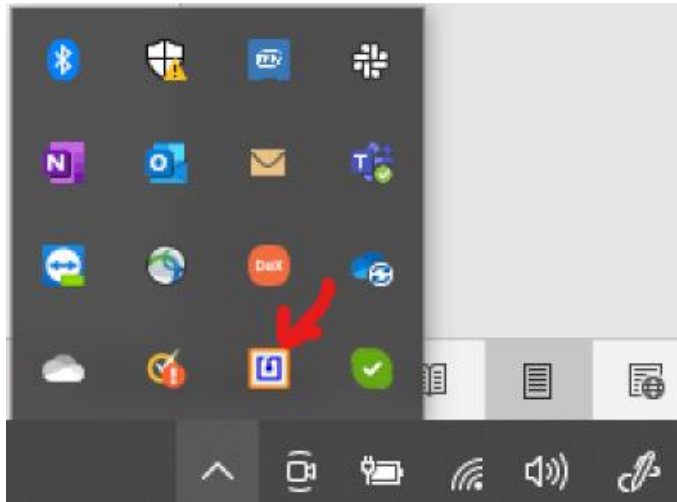
1. Run TechKoverLMS-1.2.0-.exe installer.
2. Follow installation process by default.
3. A new icon is created on desktop
4. Run TechKover LMS
5. A splash screen shows during a few seconds indicating the software is starting.
6. Software will run in service mode but must be run every time windows boot.
7. Software is running



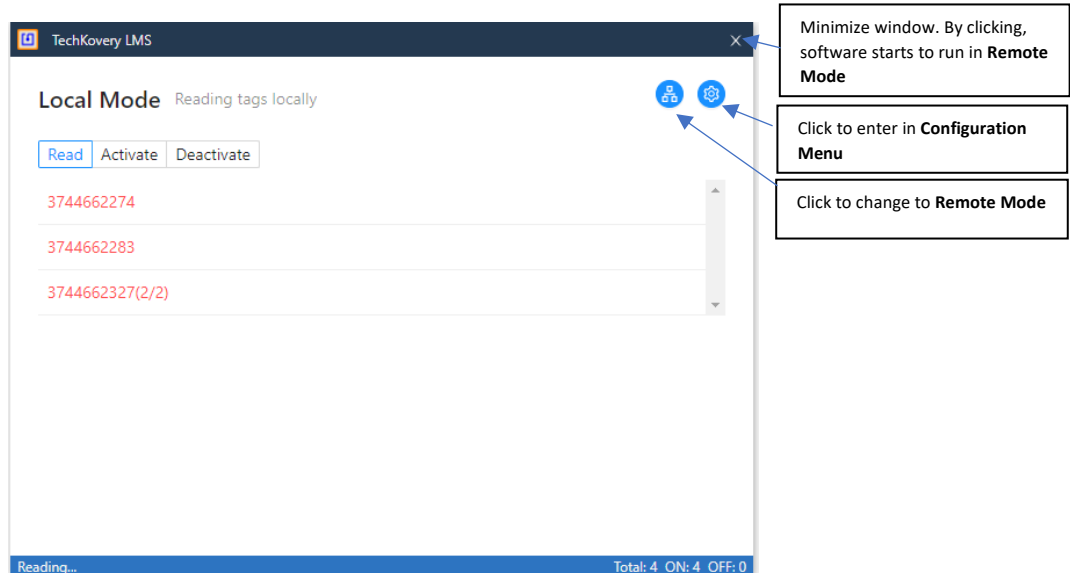
Configuring TechKoverly LMS

TechKoverly LMS has two working mode:

- **Remote Mode.** Is the default mode every time the software boot. In this mode software is waiting for ALMA request.
- **Local Mode.** You can change to local mode by clicking on the tray icon. On this mode you can setup configuration and other functionalities like Read / Activate / Deactivate bulk security



By clicking on the icon, the software opens the configuration and user interface in Local Mode.



NOTE: In Local Mode, communication to ALMA interface is not possible. Change to Remote Mode if communication to LMS is needed.

Configuration mode



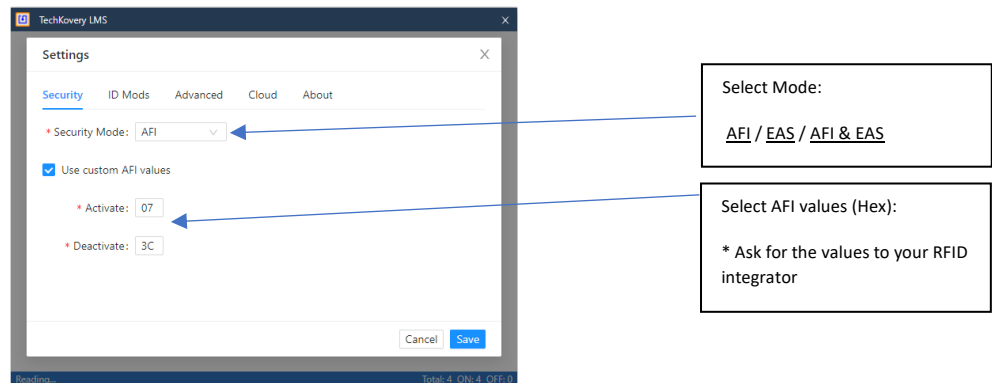
Please note TechKoverY LMS will autodetect the datamodel used by the library, so no configuration is needed.

Supported autodetect datamodels:

- ISO Fixed 28560-3.
- ISO Object 28560-2.
- Danish
- 3M Alphanumeric
- 3M Numeric
- Dutch (ask for configuration)

**If your datamodel is not in the list, please ask for integration.*

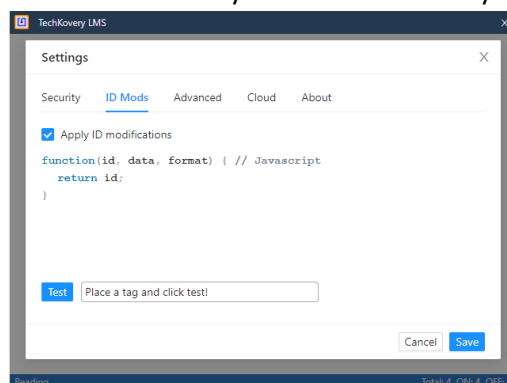
o Security



*TechKoverY LMS is configured by default to set default ISO AFI 07 as activated security value.

o ID Modification (DON'T MODIFY IF YOU DON'T NEED).

Some libraries need to modify the barcode send by the reader to ALMA.

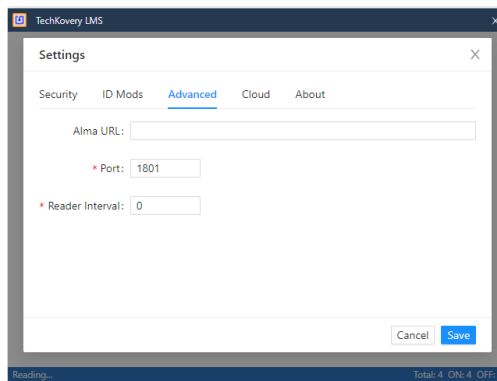


In this tab you can set any Javascript formula. For example:

Formula	Original ID	Modified ID	
return id;	12345678	12345678	Just send barcode read
if(id[2] === '9') { return id;} else {return id.replace(/ ^a E0/, '117')};	E091234567 E00004567	E091234567 1170004567	If third number is 9, send ID as is. Else replace first E0 by a 117
return id.replace(/ ^a [^0-9a-zA-Z]/g, "");	123_4567 ^a	1234567	Remove unwanted values except numbers and letters

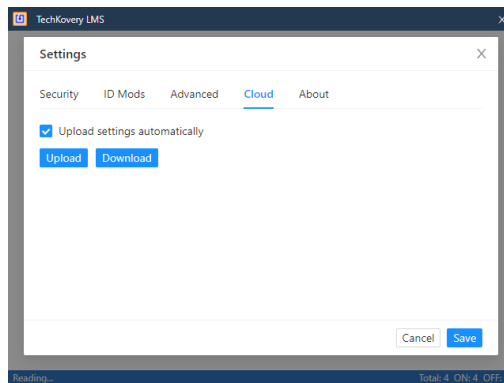
**Please ask for your formula if you need any.*

o **Advanced.**



Do not touch if you are not requested by TechKoverY. Only used if your system already use port 1801 for other purpose.

o **Cloud**

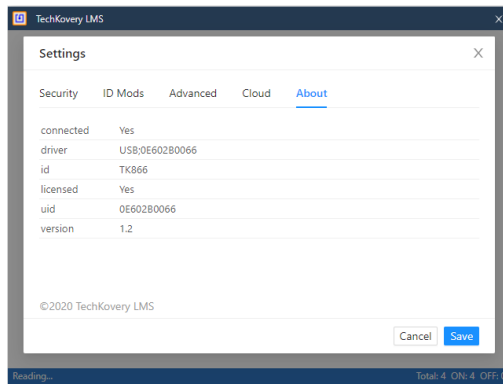


You can backup a copy of configuration in TechKoverY cloud server.

It's a good tool when the PC is replaced, so configuration can be recovered after the re-installation of the software.

No personal information is stored on cloud, except serial number of reader, and configuration.

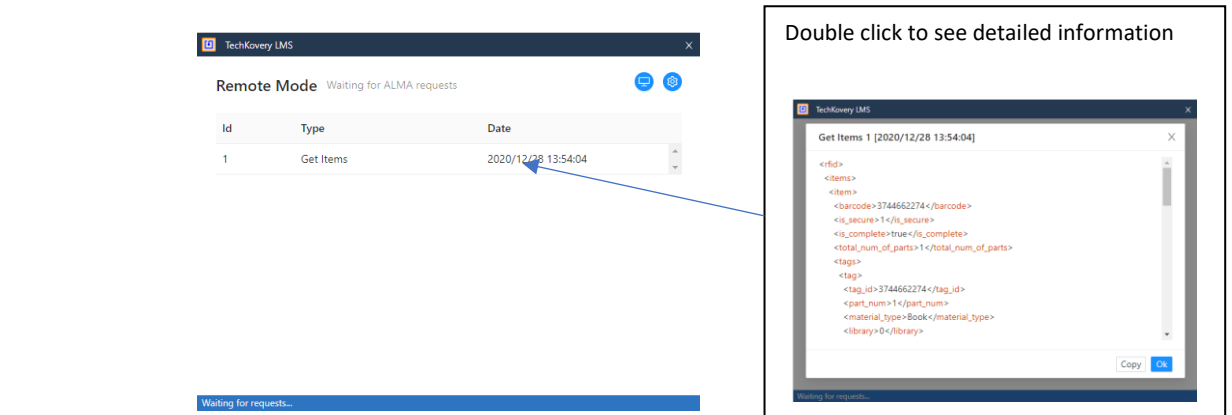
○ About



Remote Mode

Remote Mode is the default mode when software boot. This mode allows communication to ALMA.

It's possible to see communications to/from ALMA by opening interface and selecting Remote Mode on it:

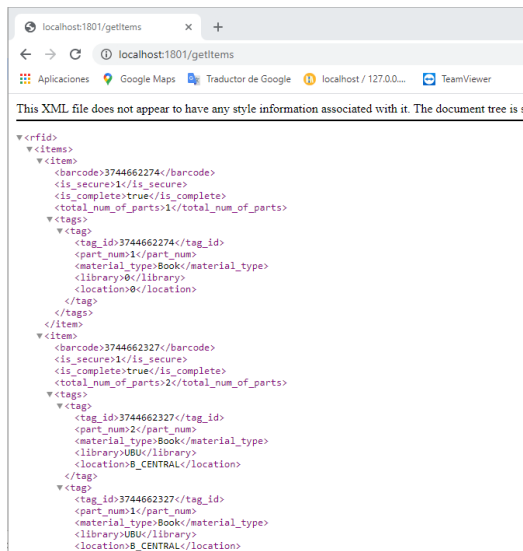


NOTE: In Local Mode, communication to ALMA interface is not working. Change to Remote Mode if communication to LMS is needed.

Test communication without ALMA:

- Place some tags on the reader
- Set Remote Mode
- Open your browser and type <http://localhost:1801/getItems>
- See response from TechKovery LMS

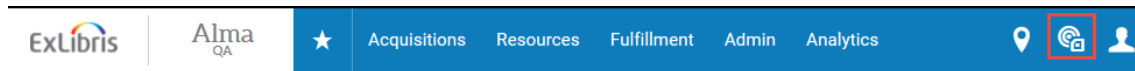
You will see something like this:



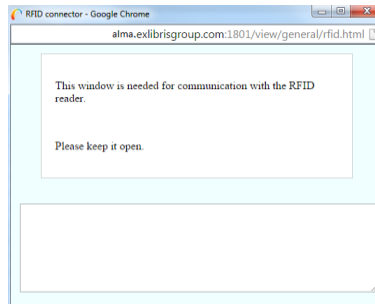
Test communication with ALMA:

Be sure integration profile is done and your front desk has the right profile associated.

Click on the RFID icon 



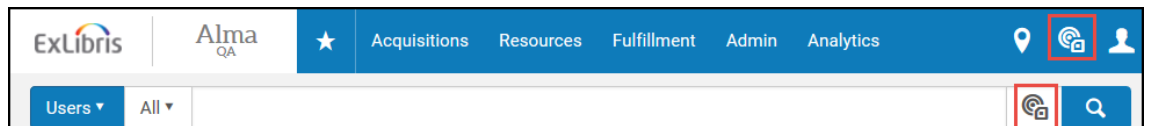
When the connection is active, an RFID pop-up windows is displayed:



This window must be open. You can minimize, but do not close. If this window is closed, communication to TechKoverly LMS is not possible.

Once the pop-up is open, a “Read RFID” button  will be displayed in following places:

- Patron Services Workbench
- Return Workbench
- Scan In interface (both tabs)
- Repository Search
- Persistent search bar
- Physical item editor
- Quick Cataloging
- Receive



Pressing this button will fill the relevant text box with the barcodes of the items which are placed on the RFID device.

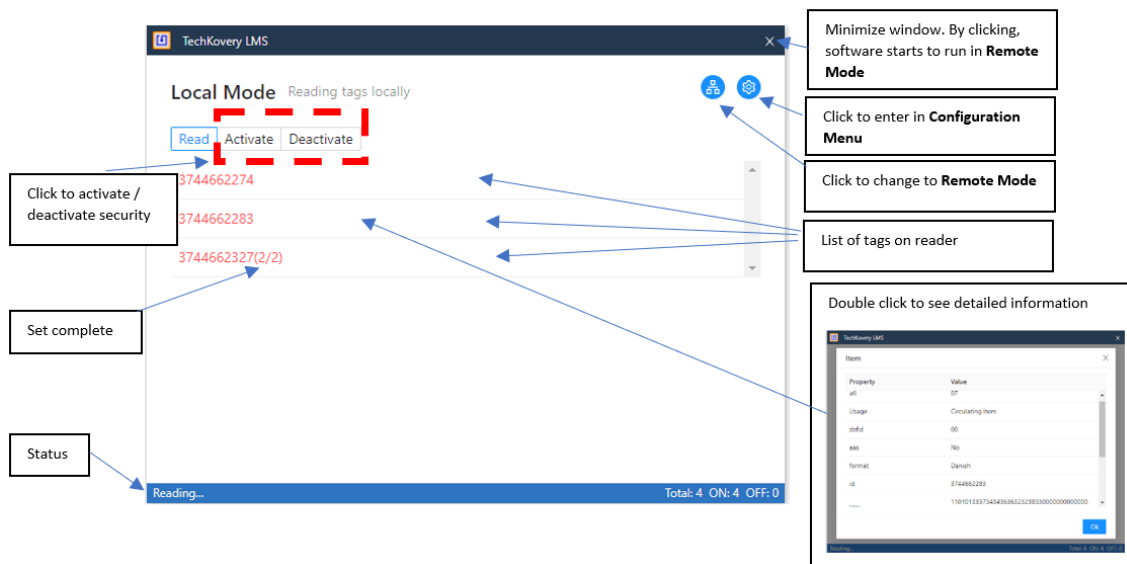
In case of loan, return and scan-in operation, the item’s security bit will be updated accordingly.

NOTE: TechKoverly LMS software is used only for check in and check out and does not allow updating the tag itself in current version. Therefore, the mapping definitions are unavailable for TechKoverly RFID profiles. TechKoverly Conversion is provided with no extra cost in order to write or update tags.

Local Mode

In Local Mode user can:

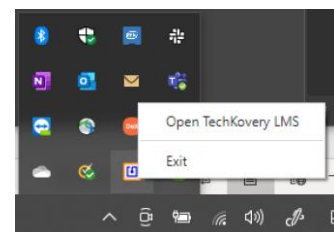
- Activate tags in bulk mode.
- Deactivate tags in bulk mode.
- Read security status of every tag.
- Get detailed information of every tag.



Close Software

To close the software:

- Right click on icon
- Select Exit



License

All TechKovery readers has an embedded license. This license allows you to:

- Install TechKovery LMS in any PC without limitation.
- Install TechKovery Conversion in any PC without limitation.

Conversion Station

The software incorporated in the Techkovery Conversion system adapts to libraries, providing different options for recording item labels and user cards. This program will be used by the office staff.

The main features are:

- Easy Interface
- Support to multiple datamodels
 - o ISO Fixed 28560-3.
 - o ISO Object 28560-2.
 - o Danish
 - o 3M Alphanumeric
 - o 3M Numeric
 - o Dutch
- Support to customized AFI & EAS

